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## The Delphion Integrated View

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Kind: **A** (See also: [JP02659790B2](#))Inventor: **INABA MAKOTO;**  
**ISHIHARA KOICHIRO;**  
**ABE TADASHI;**  
**IWASAKI SEIJI;**  
**SEKINO NAOKI;**  
**UCHIYAMA NAOKI;**  
**WATANABE NOBUHIKO;**Assignee: **OLYMPUS OPTICAL CO LTD**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **1990-09-21** / 1989-03-13Application Number: **JP1989000058021**IPC Code: Advanced: **A61B 18/00**; **A61N 5/06**;  
Core: [more...](#)  
IPC-7: **A61B 17/36**;Priority Number: 1989-03-13 **JP1989000058021**

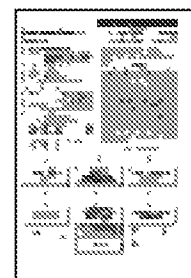
Abstract: PURPOSE: To irradiate only a necessary point with an ultrasonic wave by providing a fluorescence detecting means to detect a fluorescence generated from a tumor and an ultrasonic generating means to irradiate the tumor with the ultrasonic wave in an ultrasonic wave irradiating part.

CONSTITUTION: A photosensitive material such as an HPD is given to a patient, it is integrated in a diseased part, and thereafter, a probe is inserted into a duct cavity. A probe head is positioned in the vicinity predicted as the diseased part, thereafter, water is injected through a feed channel 9 from a pump 12 for water feed, a balloon 10 is expanded, it is sealingly fixed on a duct cavity wall, and the probe head is made stationary. An ultrasonic vibrator 2 is excited, a radial scanning is executed, simultaneously, the ultrasonic wave is made to irradiate the diseased part as a goal, then, the photosensitive material integrated in the diseased part is excited, and the fluorescence is generated. The fluorescence is light-received by a cloth fiber 8, it is light-conducted through a light guide 8b to a light emission detecting/displaying part 16, and a fluorescent quantity is monitored. By detecting the fluorescent quantity in such a way, the position of the diseased part can be correctly grasped, and by irradiating the integrated part of the photosensitive material with the ultrasonic wave, a cellcidal effect can be reinforced, and a correct treatment can be executed.

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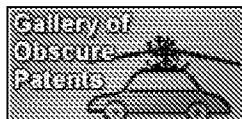
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Other Abstract: None

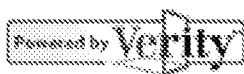
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